

# CONTAMINATION OF ELECTRONIC ASSEMBLIES

**Michael Pecht, Elissa M. Bumiller,  
David A. Douthit and Joan Pecht**



**CRC Press**  
Taylor & Francis Group

# Contamination Of Electronic Assemblies

**M Carnoy**



## **Contamination Of Electronic Assemblies:**

Contamination of Electronic Assemblies Elissa M. Bumiller, David A. Douthit, Joan Pecht, 2002-11-12 Contamination problems have become a major factor in determining the manufacturability quality and reliability of electronic assemblies Understanding the mechanics and chemistry of contamination has become necessary for improving quality and reliability and reducing costs of electronic assemblies Designed as a practical guide Contamination of Electronic Assemblies presents a generalized overview of contamination problems and serves as a problem solving reference point It takes a step by step approach to identifying contaminants and their effects on electronic products at each level of manufacture The text is divided into four sections Laminate Manufacturing Substrate Fabrication Printed Wiring Board Assembly and Conformal Coatings These sections discuss all aspects of contamination of electronic assemblies from the manufacture of glass fibers used in the laminates to the complete assembly of the finished product The authors present detection and control methods that can help you reduce defects during the manufacturing process With tables figures and fishbone diagrams serving as a quick reference Contamination of Electronic Assemblies will help you familiarize yourself with the origination detection measurement control and prevention of contamination in electronic assemblies Contamination of Electronic Assemblies Elissa M.

Bumiller, David A. Douthit, Joan Pecht, 2002-11-12 Contamination problems have become a major factor in determining the manufacturability quality and reliability of electronic assemblies Understanding the mechanics and chemistry of contamination has become necessary for improving quality and reliability and reducing costs of electronic assemblies Designed as a practical guide Contamination of **Cleaning and Contamination of Electronics Components and Assemblies** B. N. Ellis, 1986 *Soldering in Electronics Assembly* Mike Judd, Keith Brindley, 2013-09-24 Soldering in Electronics Assembly discusses several concerns in soldering of electronic assemblies The book is comprised of nine chapters that tackle different areas in electronic assembly soldering Chapter 1 discusses the soldering process itself while Chapter 2 covers the electronic assemblies Chapter 3 talks about solders and Chapter 4 deals with flux The text also tackles the CS and SC soldering process The cleaning of soldered assemblies solder quality and standards and specifications are also discussed The book will be of great use to professionals who deal with electronic assemblies **Handbook for Critical Cleaning,**

**Second Edition - 2 Volume Set** Barbara Kanegsberg, Edward Kanegsberg, 2020-01-02 This set consists of two volumes Cleaning Agents and Systems and Applications Processes and Controls Updated expanded re organized and rewritten this two volume handbook covers cleaning processes applications management safety and environmental concerns The editors rigorously examine technical issues cleaning agent options and systems chemical and equipment integration and contamination control as well as cleanliness standards analytical testing process selection implementation and maintenance specific application areas and regulatory issues A collection of international contributors gives the text a global viewpoint Color illustrations video clips and animation are available online to help readers better understand presented material **A**

**Methodology for Determining Root Causes of Failures Due to Contamination of Electronic Assemblies** Mark Andrew Henry, 1999     Handbook for Critical Cleaning: Applications, processes, and controls Barbara Kanegsberg, Ed Kanegsberg, Edward Kanegsberg, 2011 Nearly all companies which manufacture or fabricate high value physical objects components parts assemblies perform critical cleaning at one or more stages These range from the giants of the semiconductor aerospace and biomedical world to a host of small to medium to large companies producing a dizzying array of components

**Corrosion of Electronic and Magnetic Materials**, 2010-02 The papers included in this issue of ECS Transactions were originally presented in the symposium Corrosion of Electronic and Magnetic Materials held during the 216th meeting of The Electrochemical Society in Vienna Austria from October 4 to 9 2009     *The Electronics Assembly Handbook* Frank Riley, Electronic Packaging and Production, 2013-06-29 The assembly of electronic circuit boards has emerged as one of the most significant growth areas for robotics and automated assembly This comprehensive volume which is an edited collection of material mostly published in Assembly Engineering and Electronic Packaging and Production will provide an essential reference for engineers working in this field including material on Multi Layer Boards Chip on board and numerous case studies Frank J Riley is senior vice president of the Bodine Corporation and a world authority on assembly automation     *Handbook of Contamination* Protonique (Romanel-sur-Lausanne), Brian N. Ellis, 1981

**Optimizing Quality in Electronics Assembly: A Heretical Approach** James Allen Smith, Frank B. Whitehall, 1997 In a radical departure from the dozens of other quality books this one makes the case that the traditional TQM procedures used in the electronics assembly field are not only ineffective they contribute to many failures The only book to focus exclusively on quality in electronics manufacturing to propose a measurable cost benefit methodology this provocative volume shows what's lacking in current quality programs how fresh approaches can yet avoid a quality catastrophe in the electronics industry Along the way numerous quality myths are exploded hidden issues are confronted an array of electronics specific solutions are offered

*Assembly Engineering*, 1978     Collected Papers American Society of Tool and Manufacturing Engineers, 1965

**Solders and Soldering** Howard H. Manko, 2001-03-01 Get the latest developments in solder technology You can't work in electronics without solder and you shouldn't work with solder without Solders and Soldering Fourth Edition Profusely illustrated this book by the world's top solder educator has been the leader in its field for two decades You'll learn 29 different methods for soldering and heating for both automatic and manual procedures and learn about the strengths and weaknesses of each method for varying applications This up to date edition deals at length with modern cleaning materials and processes emphasizing EPA and OSHA guidelines and regulations and provides you with state of the art techniques for soldering with miniaturized circuit boards     ATFA-77, Advanced Techniques in Failure Analysis, 1977     Research Reports USAF School of Aerospace Medicine, 1962     Proceedings of the Technical Program, 1964     *Contamination Effects on Electronic Products* Tautscher, 1991-01-07 The technology for preventing and mitigating contamination of

electronic products is reviewed in four major ways the types and sources of contaminants typical contamination effects contamination removal methods and contamination prevention through design process product protection and testing

*Technical Book Review Index ,1987      Electronic Manufacturing. Electronic Manufacturing and Printed Circuit Production ,1989*

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